The JFACC Planning Tool (JPT) Logistics Planner (JLP)

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JLP Objective

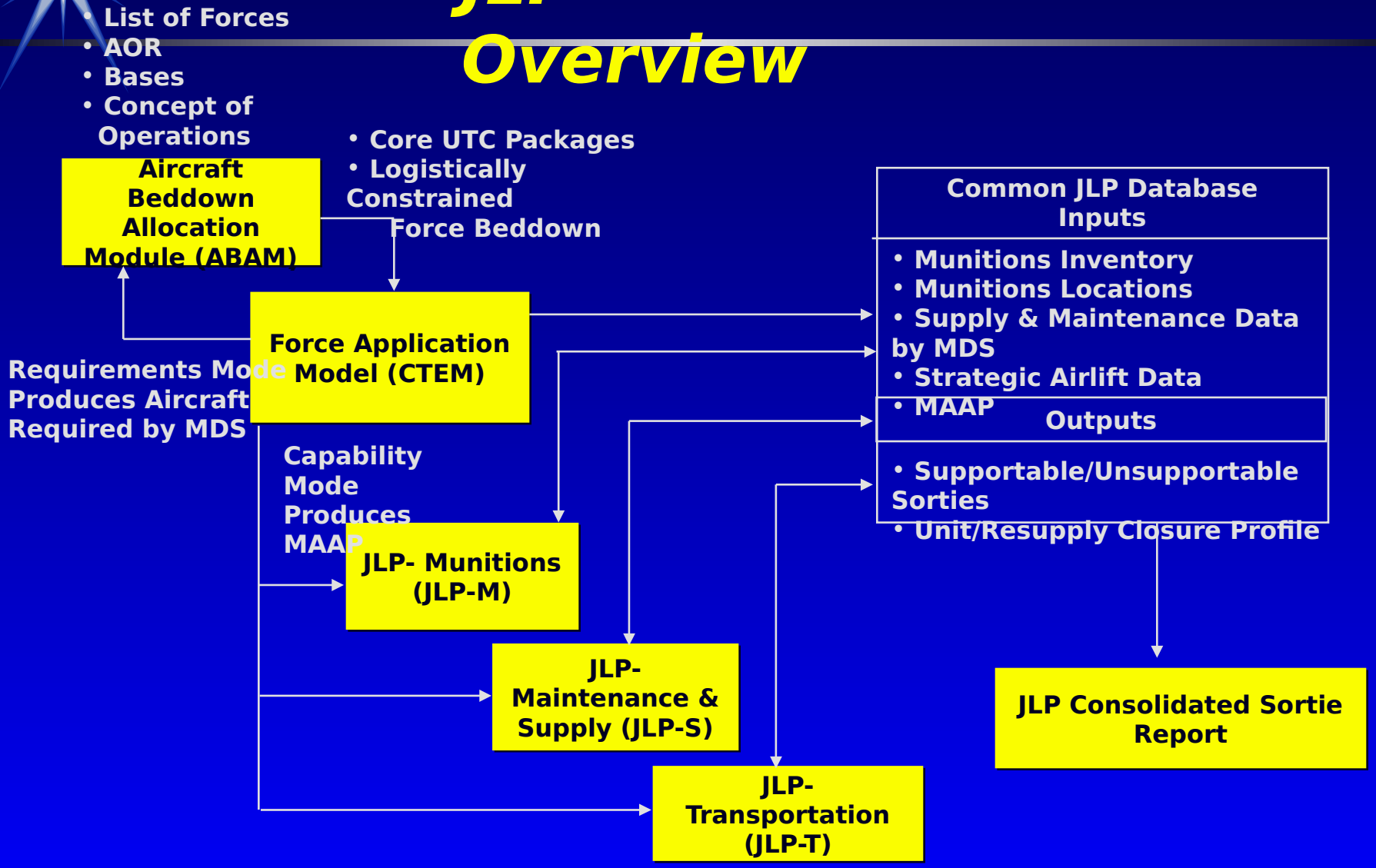
- Provide logistics analysis for strategy development and COA evaluation
- Aid in the selection of force beddown locations
- Determine the impact of -
  - Strategic airlift
  - Supply/maintenance
  - Munitions availability

  on the JFACC's Master Air Attack Plan (MAAP)
- Provide logisticians specific issues for resolution, i.e.,
  - Munitions availability
  - Unit closure

Development History

- Developed as a prototype for AF/XOOC (Checkmate) in 1996
- Designed as a subsystem of the JFACC Planning Tool (JPT)
- Utilized in conjuction with the JPT or standalone
- Planning integration with other force application models
- Being considered for integration into TBMCS, IC2S Block 00

JLP Overview



Aircraft Beddown Allocation Module (ABAM)

Selects base locations for beddown of force packages, subject to resource constraints

Nonconsumable constraints

- **Runway Length**
- **LCN**

Consumable constraints

- **Ramp Space**
- **Fuel**

JLP-Munitions (JLP-M)

- Determines munitions availability based on user selected sources
- Prioritizes munitions built on a daily basis
- Provides substitution capability when primary DODICs are unavailable
- Identifies unsupportable sorties based on munitions availability
- Generates munitions strategic airlift requirements

JLP-Supply/Maintenance (JLP-S)

Logistically constrains aircraft in a wartime situation

Predicts deployed aircraft inventory status:

- **Mission Capable aircraft**
- **Not Mission Capable for Maintenance**
- **Not Mission Capable for Supply**

Determines scheduling effectiveness

JLP-Transportation (JLP-T)

Estimates closure times for:

- **Unit movement requirements**
- **Munitions (Class 5) movement requirements**
- **Repair and Spare parts (Class 9) movement requirements**

Identifies transportation constrained sorties based on

- **Late unit delivery**
- **Late munitions delivery**
- **Late repair parts delivery**

Estimates airlift requirements to support force deployment

JLP Consolidated Report

Consolidates outputs from all JLP planners

Lists lost sorties based on:

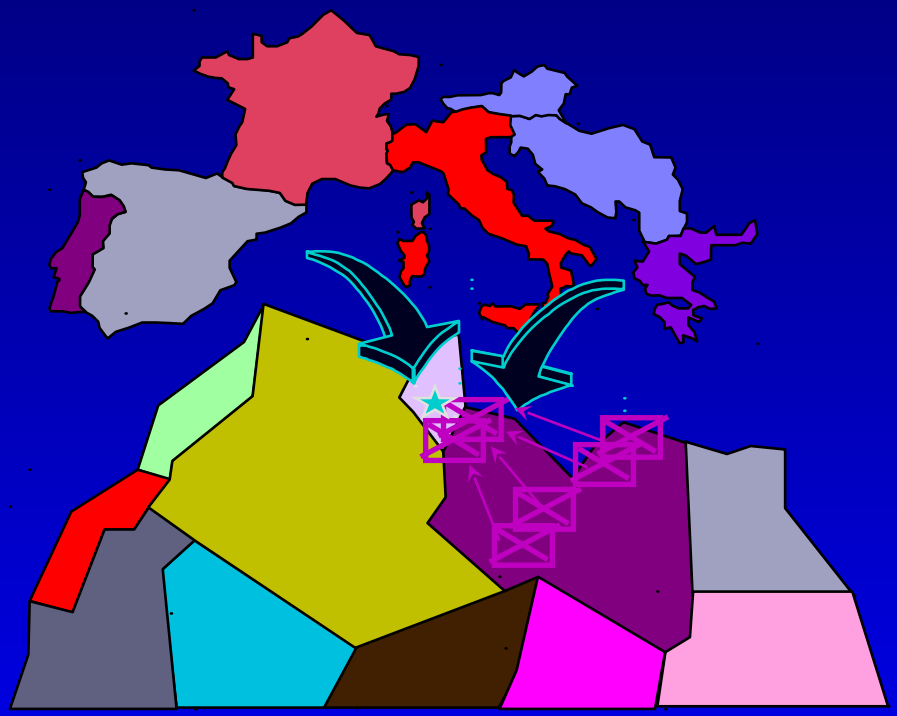
- **Insufficient munitions (JLP-M)**
- **Aircraft force structure/scheduling (JLP-S)**
- **Aircraft Not Mission Capable - Maintenance (JLP-S)**
- **Aircraft Not Mission Capable - Supply (JLP-S)**
- **Insufficient airlift for resupply - munitions (JLP-T)**
- **Insufficient airlift for resupply - repair parts (JLP-T)**
- **Insufficient airlift for unit closure (JLP-T)**

JR&D effort with limited functionality

Demonstration Scenario

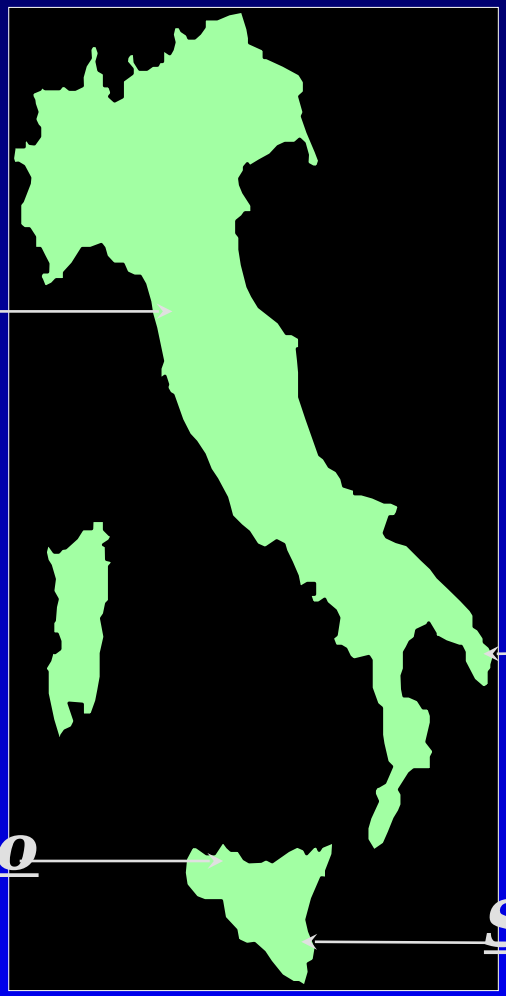
This is an Unclassified Briefing

Scenario for Demonstration



- **Lybia threatens invasion of Tunisia**
- **US Deploys to Italian airbases in support of Tunisia**

Forces and Basing



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Software Demonstration